

AMENDMENT NO. 5 APRIL 2012
TO
IS 7098 (PART 1) : 1988 SPECIFICATION FOR CROSSLINKED
POLYETHYLENE INSULATED THERMOPLASTIC SHEATHED CABLES
PART 1 FOR WORKING VOLTAGES UP TO AND INCLUDING 1 100 VOLTS

(First Revision)

(Page 2, clause 2.2) — Renumber the existing Note as Note 1 and add Note 2 as given below:

‘NOTE 2 — When type tests have been successfully performed on a type of cable covered by this standard with a specific conductor cross-sectional area and rated voltage, type approval shall be accepted as valid for cables of the same type with other conductor cross-sectional areas and/or rated voltages provided the following two conditions are satisfied:

- a) The same material of insulation and manufacturing process are used.
- b) The conductor cross-sectional area is not larger than that of the tested cable.

Approval shall be independent of the conductor material.’

(Page 5, clause 13.1.2) — Substitute the following for the existing clause:

‘The armour wires/formed wires shall be applied as closely as possible with a coverage of not less than 90 percent. The coverage of armour shall be done as per Appendix C.’

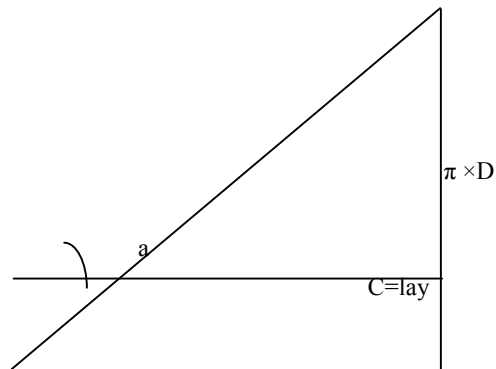
[Page 12, Appendix B (see also Amendment No. 1)] — Add the following ‘Appendix C’ after ‘Appendix B’:

APPENDIX C
(Clause 13.1.2)
ARMOUR COVERAGE PERCENTAGE

$$\text{Percent coverage} = \frac{N \times d}{W} \times 100$$

where

- N = number of parallel wires,
- d = diameter of wire/width of formed wires,
- $W = \pi \times D \times \cos a$,
- D = diameter under armour,
- a = angle between armouring wire/formed wires and axis of cable,
- $\tan a = \pi \times D/C$, and
- C = lay length of armouring wires/formed wires.



(ET 09)

Reprography Unit, BIS, New Delhi, India